

**CITY OF KAWARTHA LAKES**

**Permanent Household Special Waste Depot**

**Project #: HSW-01-10**

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**Prepared with funding from the Ontario Waste Diversion Organization**

**Date: MARCH 2001**

# **WDO ROUND ONE PROJECTS FINAL REPORT**

**Project Name:** Permanent Special Waste  
Depot

**Municipality:** City of Kawartha Lakes  
(former County of Victoria)

**Municipal Project Manager:** Laurie L. Nicol

**Total Funding Provided by WDO:** \$25,000

**Total Proposed Project Costs:** \$75,000

# FINAL REPORT

## 1. EXECUTIVE SUMMARY

The City of Kawartha Lakes received funding from the WDO for the establishment of its first Household Special Wastes Depot to be located at one of the City's existing landfill sites. The depot will serve the entire City, with a permanent population of 65,000 and a seasonal equivalent population of 17,000. The permanent structure will act as a sorting and storage facility for HSW, as well as providing an exchange depot for household paints.

The City (former County of Victoria) has historically held special one-day events for the collection of HSW, however, the number of vehicles and volumes of waste indicate the need for a permanent facility open year round (on Saturdays).

The City tendered for the construction of the permanent HSW depot in the fall of 2000 and construction of the depot began in late 2000. The majority of the interior work is completed. The exterior ground of the building will be brought up to grade and compacted prior to the concrete platform being poured. This work will be underway as soon as the frost is out of the ground. Barring any unforeseen weather conditions, the facility will be fully operational by mid June.

## 2. INTRODUCTION

The City of Kawartha Lakes received funding from the WDO for the establishment of a new Household Special Wastes (HSW) Depot to be located at its Fenelon Landfill. This will be the City's first permanent depot and will serve the entire City including both permanent residents (population 65,000 and 34,045 households) and our many seasonal residents (estimated equivalent population of 17,000). The facility will comprise the following components:

Permanent base structure for the sorting and storage of HSW including:

- Latex paint
- Oil based paint
- Urethanes, lacquers, etc.
- Paint thinners
- Used propane containers
- Fertilizers
- Pesticides
- Herbicides
- Household cleaning chemicals
- Sharps
- Used medicines
- Used motor oils (cars, small engines, etc.)
- Batteries (car, household, button)
- Unknown mixtures

The facility will act not only as a site where residents can take their materials for disposal, but will also provide an exchange depot for household paints. This will help us

reduce the quantity of HSW materials requiring expensive recycling and/or disposal, but more importantly, will help reuse valuable materials.

The former County of Victoria has offered single day HSW events since 1992. Over the past three years, 3 to 4 single day events have been held per year. Estimated quantities of HSW materials diverted over the 3-year period include approximately 267,000 litres of liquid materials, over 5.6 tonnes of solid materials, 436 propane cylinders and over 1,550 automotive and marine batteries. Through the establishment of a permanent facility, we anticipate diverting from disposal significantly more hazardous wastes each year, as the facility would be open every Saturday throughout the year. Establishment of a permanent depot will help us further reduce the impact of hazardous wastes leaching from our landfill sites.

### **3. METHODOLOGY**

By siting the HSW depot at one of the City's existing landfills, we believe this will allow us to enjoy higher diversion rates than if we were to site the facility on its own. The Fenelon Landfill is ideally suited to serve the northerly and central part of the City. The Fenelon Landfill was also chosen because, in addition to being a disposal facility, we also run a very successful Reuse Centre at the site. We believe the HSW depot will compliment the Reuse Centre. In the future, the City plans to establish a second HSW depot at our existing Lindsay-Ops Landfill, for which we are currently seeking approval for a long-term expansion. The City may also establish a third HSW depot at the Somerville Landfill, which services the northern-most part of the City.

The City has received a Certificate of Approval from the Ministry of the Environment for the establishment of the Permanent HSW Depot. As part of the Ministry's approval requirements, a Design and Operations Report, including detailed design drawings, has been completed. The City tendered for the construction of the HSW depot and awarded the project in the fall of 2000. Construction began in late 2000.

### **4. RESULTS**

The following work has been completed to date:

- All framing beams, roofs and trusses
- All exterior walls and roof steel installed
- Fire rated drywall on inside walls and ceilings
- Interior insulation in both walls and ceiling completed
- Both fire-rated UL doors installed
- Both metal roll-up doors and tracks in place
- Concrete footings and retaining wall for truck loading area poured
- Interior wiring partially complete
- Interior concrete curbing, floor and ramps poured and finished
- Monolithic pour tested and met specifications

The balance of the interior work should be completed in the next several weeks. There is a 30-day waiting period after the concrete floor and curbing is poured before the amine epoxy can be applied. The exterior ground of the building must be brought up to grade and compacted prior to the concrete platform being poured. This will be prepared as

soon as the frost is out of the ground. Barring any unforeseen weather conditions, the facility will be fully operational by mid June.

## **5. TRANSFERABILITY**

Our design and operations planning will assist other municipalities of small urban/rural nature in the planning and establishment of a Permanent HSW Depot.